

# United States Patent and Trademark Office



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/975,219	10/11/2001	Ferdinand S. Signey	TI-27954	7795
23494	7590 06/12/2003			
	TRUMENTS INCORP	PORATED	EXAMINER	
P O BOX 655 DALLAS, TX	474, M/S 3999 75265		WINDMULT	ER, JOHN
			ART UNIT	PAPER NUMBER
			3724	
			DATE MAILED: 06/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary  ## Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS STHE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). If the period for reply is specified above, the maximum statutory period will application.  If the period for reply is specified above, the maximum statutory period will application of the provisions of 37 CFR 1.136(a). If the period for reply is specified above, the maximum statutory period will applicate on a proper statutory period will applicate on the provision of the provisions of 37 CFR 1.136(a). If the period for reply is specified above, the maximum statutory period will applicate on the provision of the provision	ET TO EXPIRE 3 No no event, however, may a she statutory minimum of this and will expire SIX (6) MOI the application to become A this communication, even if the er 2001.  On is non-final.  Except for formal material except for formal except for formal material except for formal exc	MONTH(S) FROM a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133). If timely filed, may reduce any atters, prosecution as to the merits I.D. 11, 453 O.G. 213.  The Examiner.	
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14) Acknowledgment is made of a claim for domestic prio	rity under 35 U.S.C.	. § 119(e) (to a provisional applica	tion).
<ul> <li>a) ☐ The translation of the foreign language provision</li> <li>15)☐ Acknowledgment is made of a claim for domestic price</li> </ul>			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	., 🗀	Summary (PTO-413) Paper No(s).	
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Action S	· <u>=</u>	f Informal Patent Application (PTO-152)	•

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Application/Control Number: 09/975,219

Art Unit: 3724

## **DETAILED ACTION**

#### Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-13, drawn to a method for cutting integrated circuit packages, classified in class 83, subclass 53.
  - II. Claim14-20, drawn to a computer operated system for cutting an integrated circuit package, classified in class 438, subclass 460.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case (1) applies. The method for cutting integrated packages of invention I could be practiced by a system that does not include a computer.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Michael Skraehot on 5/16/03 a provisional election was made without traverse to prosecute the invention of method for cutting integrated circuit packages, claims 1-13. Affirmation of this election must be made by applicant in replying to this

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Office action. Claims 14-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

# Claim Rejections - 35 USC § 102

- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - A person shall be entitled to a patent unless -
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3, 6-9, 12, 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Drussel et al. Drussel et al. teach, inter alia, cutting a plurality (Fig. 5, claim 11) of integrated circuit packages (abstract; col. 4, lines 27-42) that are ball grid array packages (col. 7, lines16-17) with a water jet (col. 8, line 54) into a predetermined or desired shape (Fig. 1, 22), such that an interior portion is accessible for testing (col. 7 line 66 to col. 8 line 13; Figs. 4A-4C, edges 56, 57).

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## Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drussel et al. in view of Hashish et al. The device of Drussel et al. discloses the invention as claimed except a water jet having abrasive particles used for cutting. However, Hashish et al. teach a water jet having abrasive particles used for cutting (abstract; col. 1, lines 24-26). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the water jet of Drussel et al. with abrasive particles as taught by Hashish et al. for improved cutting.
- 9. Claims 5 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drussel et al. in view of Romanini. The device of Drussel et al. discloses the invention as claimed except pressurizing the cutting water jet to a pressure between approximately 500 psi and approximately 2500 psi. However, Romanini teaches pressurizing a cutting water jet to a pressure between approximately 500 psi and approximately 2500 psi (col. 1, lines 18 to 23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the water jet of Drussel et al. with a pressure between approximately 500 psi and approximately 2500 psi as taught by Romanini for optimum cutting.

Furthermore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the water jet of Drussel et al. with a pressure between

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approximately 500 psi and approximately 2500 psi, since the general condition of a cutting water

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jet, which by nature is pressurized, is disclosed by Drussel et al. and it has been held that where

the general conditions of a claim are disclosed in the prior art, discovering the optimum or

workable ranges, in this case pressures, involves only routine skill in the art. In re Aller, 105

USPQ 233.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Batdorf (abrasive in liquid jet, col. 2, lines 46-57), Mains Jr. (abrasive ice particles in

water jet, abstract), Distefano et al. (cutting ball grid array package, col. 1 line 18, with water

saw, col. 11 line 67).

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John Windmuller whose telephone number is 703 305-4988.

The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Allan Shoap can be reached on 703 308-1082. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872-9302 for regular

communications and 703 308-9302 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-1148.

June 6, 2003

Allan N. Shoap

**Supervisory Patent Examiner** 

Group 3700